CIVIL-TECH CONSULTANTS AND ENGINEERS

Building & Highway Material Testing Laboratory

NABL - Accredited Laboratory as per ISO / IEC-17025 :2005

T-2377

Lab No.: CTCE/BBMP/WNo.03/KRIDL/CSR-1/749g/CEMENT/2014-15 Date: 20.01.2015

TEST REPORT ON CEMENT

*CUSTOMER	:	**Asst. Executive Engineer,** Yelahanka New Town Sub Division, BBMP, Bangalore.
*AGENCY	:	**Technical Manager (West),** KRIDL, Bangalore.
*NAME OF THE WORK	:	Construction of drains and Improvements to roads in Chikkabettahalli in Attur, Ward No.03 of Yelahanka New Town Sub Division, BBMP, Bangalore.
*REFERENCE	:	BBMP/EE(YNKD)/W.O/453/2013-14 Dated: 06.02.2014
SAMPLE ID	:	Cement
SAMPLE RECEIVED ON	:	19.01.2015
PERIOD OF TESTING	:	19.01.2015 to 20.01.2015

The results of the tests conducted on the cement sample are as follows:

Sl. No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 8112-2013
1	Standard Consistency	IS-4031 (Part -4) 1988(RA-2009)	30.00 %	-
2	a) Initial Setting Time	IS-4031 (Part -5) 1988(RA-2009)	145 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part -5) 1988(RA-2009)	475 Minutes	Not More than 600 Minutes
3	Soundness by Le Chartlier Method	IS-4031 (Part-3) 1988(RA-2009)	1 mm	Not more than 10mm

*Information is furnished by the Customer/Representative.

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Chief Executive Officer

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Lab No: CTCE/BBMP/W.No.03/KRIDL/CSR-1/740g/SAND-Gradation/2014-15 : 20.01.2015

TEST REPORT ON DETERMINATION GRADATION OF FINE AGGREGATES

* Customer	: **Asst. Executive Engineer,** Yelahanka New Town Sub Division, BBMP, Bangalore.
* Agency	: **Technical Manager (West),** KRIDL, Bangalore.
* Name of Work	: Construction of drains and Improvements to roads in Chikkabettahalliin Attur, Ward No.03 of Yelahanka New Town Sub Division, BBMP, Bangalore.
Reference	: BBMP/EE(YNK.D)/W.O/453/2013-14 Dated: 06.02.2014
Technical Reference	: IS : 2386 Part 1 - 1963 RA-2007
Sample ID	: Fine Aggregates
Sample Received on	: 19.01.2015
Date of Testing	: 20.01.2015

Total Wt. of Aggregates in gms 1000

Is Sieve Size in mm	Cumulative Weight Passing in %	Specific Limits as per IS 383-1970 (RA- 2007)			
		Zone-I	Zone-II	Zone-III	Zone-IV
10	100	100	100	100	100
4.75	92.50	90-100	90-100	90-100	95-100
2.36	70.50	60-95	75-100	85-100	95-100
1.18	49.00	30-70	55-90	75-100	90-100
600 Micron	26.00	15-34	35-59	60-79	80-100
300 Micron	11.80	5-20	8-30	12-40	15-50
150 Micron	4.80	0-10	0-10	0-10	0-15

* Information is furnished by the Customer/Representative

Remarks : This sample is under Zone-I specific limits.

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Job No: CTCE/BBMP/W.No.03/KRIDL/CSR 1/740g/AGG/GR/2014-15 : 20.01.2015

TEST REPORT ON DETERMINATION GRADATION OF COARSE AGGREGATES

* Customer	: **Asst. Executive Engineer,** Yelahanka New Town Sub Division, BBMP, Bangalore.
* Agency	: **Technical Manager (West),** KRIDL, Bangalore.
* Name of Work	: Construction of drains and Improvements to roads in Chikkabettahallin Attur, Ward No.03 of Yelahanka New Town Sub Division, BBMP, Bangalore.
Reference	: BBMP/EE(YNKD)/W.O/453/2013-14 Dated: 06.02.2014
Technical Reference	: IS : 2386 Part 1 -1963 RA-2007
Sample ID	: Coarse Aggregates (40mm)
Sample Received on	: 19.01.2015
Date of Testing	: 20.01.2015

Total Wt. of Aggregates in gms= **10000**

Is Sieve Size in mm	Cumulative Weight Passing in %	Specific Limits as per IS 383-1970 (RA- 2007)	
		Graded	Single Sized
80	100	100	-
63	100	-	100
40	97.35	95-100	85-100
20	44.90	30-70	0-20
10	22.40	10-35	0-5
4.75	4.55	0-5	-

* Information is furnished by the Customer/Representative

Remarks : This sample is under Graded specific limits.

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Job No.: CTCE/BBMP/WNo.03/KRIDL/STEEL/2014-15 20.01.2015

TEST REPORT ON REINFORCEMENT STEEL

Customer	:	**Asst. Executive Engineer,** Yelahanka New Town Sub Division, BBMP, Bangalore.
Agency	:	**Technical Manager (West),** KRIDL, Bangalore.
Name of the Work	:	Construction of drains and Improvements to roads in Chikkabettahallin Attur, Ward No.03 of Yelahanka New Town Sub Division, BBMP, Bangalore.
Reference	:	BBMP/EE(YNK.D)/W.O/453/2014-15 Dated: 06.02.2014
Date of Test	:	20.01.2015
Technical Reference	:	IS: 1786-2008

Sl. No	Nominal size (dia) (mm)	Mass per metre (Kg/mtr)	TENSILE STRENGTH			Bend Test	Rebend Test
			0.20% proof stress/Yield stress N/mm²	Tensile strength (Ultimate stress) N/mm²	Elongation percent gauge length		
1	12	0.89	515	558	13.40	O.K	O.K

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T-2377

Job No: CTCE/BBMP/W.No.03/KRIDL/CSR-1/740g/CUBE/2014-15 27.02.2015

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* Customer	: **Asst. Executive Engineer,** Yelahanka New Town Sub Division, BBMP, Bangalore.
* Agency	: **Technical Manager (West),** KRIDL, Bangalore.
* Name of the work	: Construction of drains and Improvements to roads in Chikkabettahalli Amur, Ward No.03 of Yelahanka New Town Sub Division, BBMP, Bangalore.
* Reference	: BBMP/EE(YNK.D)/W.O/453/2014-15 Dated: 06.02.2014
* Sample ID	: Pavement Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
* Grade of Concrete	: M_{15}
Compressive Strength as on	: 28th day
Sample Received on	: 30.01.2015

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	30.01.2015	27.02.2015	8.165	348.5	15.49
2	30.01.2015	27.02.2015	8.258	360.9	16.04
3	30.01.2015	27.02.2015	8.326	372.5	16.56

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AEE-03

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Job No : CTCE/BBMP/W No.03/KRIDL/CSR-1/740g/CUBE/2014-15 20.03.2015

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* Customer	: **Asst. Executive Engineer,** Yelahanka New Town Sub Division, BBMP, Bangalore.
* Agency	: **Technical Manager (West),** KRIDL, Bangalore.
* Name of the work	: Construction of drains and Improvements to roads in Chikkabettahallim Attur, Ward No.03 of Yelahanka New Town Sub Division, BBMP, Bangalore.
* Reference	: BBMP/EE(YNK.D)/W.O/453/2014-15 Dated: 06.02.2014
* Sample ID	: Pavement Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
* Grade of Concrete	: M_{15}
Compressive Strength as on	: 28th day
Sample Received on	: 20.02.2015

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	20.02.2015	20.03.2015	8.455	390.5	17.36
2	20.02.2015	20.03.2015	8.366	375.2	16.68
3	20.02.2015	20.03.2015	8.214	369.5	16.42

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Job No: CTCE/BBMP/W.No.03/KRIDL/CSR-1/740g/CUBE/2014-15 18.05.2015

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* Customer	: **Asst. Executive Engineer,** Yelahanka New Town Sub Division, BBMP, Bangalore.
* Agency	: **Technical Manager (West),** KRIDL, Bangalore.
* Name of the work	: Construction of drains and Improvements to roads in Chikkabettahallin Attur, Ward No.03 of Yelahanka New Town Sub Division, BBMP, Bangalore.
* Reference	: BBMP/EE(YNKTD)/W.O/453/2014-15 Dated: 06.02.2014
* Sample ID	: Pavement Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
* Grade of Concrete	: M_{25}
Compressive Strength as on	: 28th day
Sample Received on	: 20.04.2015

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	20.04.2015	18.05.2015	8.102	485.5	21.58
2	20.04.2015	18.05.2015	8.258	498.3	22.15
3	20.04.2015	18.05.2015	8.300	526.5	23.40

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Job No.: CTCE/BBMP/W.No.03/KRIDL/CSR-1/740g/CUBE/2014-15 17.06.2015

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* Customer	: **Asst. Executive Engineer,** Yelahanka New Town Sub Division, BBMP, Bangalore.
* Agency	: **Technical Manager (West),** KRIDL, Bangalore.
* Name of the work	: Construction of drains and Improvements to roads in Chikkabettahallin Attur, Ward No.03 of Yelahanka New Town Sub Division, BBMP, Bangalore.
* Reference	: BBMP/EE(YNKD)/W.O/453/2014-15 Dated: 06.02.2014
* Sample ID	: Covering Slab Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
* Grade of Concrete	: M_{20}
Compressive Strength as on	: 28th day
Sample Received on	: 20.05.2015

Sl.Nos.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	20.05.2015	17.06.2015	8.452	528.5	23.49
2	20.05.2015	17.06.2015	8.236	490.8	21.81
3	20.05.2015	17.06.2015	8.390	515.6	22.92

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